1. PRODUCT DATA

Product Name: ENVIRESTORE 100™
Producer: Diedrich Technologies, A Hohmann & Barnard Company, 310 Wayto Road, Schenectady, NY 12303
Company Contact: Ken Eglin
Telephone: 800-283-3888

24-Hour Emergency Contact: CHEMTREC 800-424-9300

This product is manufactured for Commercial/Industrial use. Not recommended for: Household use.

2. HAZARDOUS IDENTIFICATION

GHS Ratings:

- Oral Toxicity: Acute Tox. 5
  Anticipated oral LD50 between 2000 and 5000 mg/kg; Indication of significant effect in humans; Any mortality at class 4; Significant clinical signs at class 4

- Inhalation Toxicity: Acute Tox. 2
  Gases>100+<=500ppm, Vapors>0.5+<=2mg/l,
  Dusts & mists>0.05+<=0.5mg/l

- Skin corrosive: 1A
  Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal

- Eye corrosive: 1
  Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

- Respiratory sensitizer: 1
  Respiratory sensitizer

- Carcinogen: 1B
  Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

- Reproductive toxin: 2
  Human or animal evidence possibly with other information

GHS Hazards:

- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child

GHS Precautions:

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
Skin Contact: In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Ingestion: If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

Notes to Physician: No data found.

5. FIRE FIGHTING MEASURES
Flammable Limits: LEL: N/A  UEL: N/A
Flash Point: No data available.
Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.
Unusual Fire or Explosion Hazards: No data available.
Hazardous Combustion Products: See Section 10 for a list of hazardous decomposition products for this mixture.

Fire Fighting: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

Fire Fighting: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES
Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

ACID SPILLS: Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate). Cautiously neutralize remainder. Then wash away with plenty of water.
7. HANDLING AND STORAGE
Handling Precautions: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.
Storage: Prevent from freezing. Store at room temperatures, i.e., 40º to 95ºF (4º to 35ºC)
Regulatory Requirements: No data found

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name/CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid 7664-38-2</td>
<td>1 mg/m³ TWA</td>
<td>3 mg/m³ STEL</td>
<td>NIOSH: 1 mg/m³ TWA</td>
</tr>
<tr>
<td>Citric Acid 77-92-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium bifluoride 1341-49-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid 7664-93-9</td>
<td>1 mg/m³ TWA</td>
<td>0.2 mg/m³ TWA (thoracic fraction)</td>
<td>NIOSH: 1 mg/m³ TWA</td>
</tr>
</tbody>
</table>

Engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.
Ventilation Control: Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.
Administrative controls: No data found.
Personal Protection: As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.
Eye Protection: Normal industrial eye protection practices should be employed.
Skin Protection: In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory: If airborne concentration limits are not met, an approved respirator must be worn.
Contaminated Equipment: Dispose of the waste in compliance with federal, state, regional, and local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES
Melting point: Not Determined
Freezing point: Not Determined
Solubility: Complete
Boiling range: 100°C
Flash point: 999°C, 999°F
Evaporation rate: Not Determined
Flammable Limits: LEL: N/A UEL: N/A
Appearance: Clear, Colorless
Odor: Pungent
Physical State: Liquid
Vapor Pressure: Not Determined
Odor threshold: Not Determined
Vapor Density: Not Determined
pH: Strong Acid <1
Explosive Limits: 0%
Partition coefficient (n-Octanol/water): Not Determined
Autoignition temperature: 1010°C
Decomposition temperature: Not Determined
Viscosity: Not Determined
Density: 1.192525015
Weight Per Gallon: 8.5 lbs

10. STABILITY AND REACTIVITY
Stability: STABLE
Incompatibilities: Avoid contact with strong bases.
Hazardous Decomposition Products: Note: these are all possible decomposition products based on molecular structure of components:
– Oxides of Sulfur
– Oxides of Phosphorus
– Hydrogen or Hydrogen Fluoride
– Oxides of Nitrogen or Ammonia
– Oxides of Carbon
– Hazardous polymerization will not occur
11. TOXICOLOGICAL INFORMATION
Mixture Toxicity:
Oral Toxicity: 2,366.00mg/kg
Inhalation Toxicity: 0.08mg/L

Component Toxicity: 7664-38-2 Phosphoric acid
Oral: 1,530.00 mg/kg (Rat)
Dermal: 2,730.00 mg/kg (Rabbit)

Routes of entry: No data found.
Target Organs: Eyes, Skin, Respiratory System
Effects of Overexposure: Causes severe skin burns and eye damage

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric Acid</td>
<td>2</td>
<td>IARC: Human Carcinogen OHSA: Listed</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION
Ecotoxicity: No data available for this product.
Component Ecotoxicity:
- Citric Acid: 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]
- Sulfuric Acid: 96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

13. DISPOSAL
Disposal Instructions: Refer to the latest federal, state, and local regulations regarding proper disposal.

14. TRANSPORTATION INFORMATION
The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packaging Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Corrosive Liquid NOS (Phosphoric Acid Glycolic Acid)</td>
<td>UN1760</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION
This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B): None

- 7664-93-9 Sulfuric acid 2%
- 1341-49-7 Ammonium bifluoride 4%
- 7664-38-2 Phosphoric acid 14%

US DOT List of Severe Marine Pollutants (172.101 - Appendix B): None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):
- 7664-93-9 Sulfuric acid 2%

Sara Section 302 Threshold Planning Quantity:
- 7664-93-9 Sulfuric acid 2%

SARA Section 313, Toxic Chemicals (40 CFR 372.65):
- 7664-93-9 Sulfuric acid 2%

SARA Reportable Quantity:
- 7664-93-9 Sulfuric acid 2%
- 1341-49-7 Ammonium bifluoride 4%
- 7664-38-2 Phosphoric acid 14%

Toxic Substances Control Act (TSCA): All components are listed or exempt from the Toxic Substances Control Act except those listed below.
- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.
- 7664-93-9 Sulfuric acid 2.0%

16. OTHER INFORMATION
Date of Preparation: July 1st, 2016
Revision Date: March 16th, 2017

HMIS & NFPA Hazard Rating Legend
- * = CHRONIC HEALTH HAZARD
- 3 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

Health 3
Flammability 0
Physical Hazard 1
Personal Protection 1

Flammability
Health
Special
Instability

LEGEND

0 = LEAST  1 = SLIGHT  2 = MODERATE  3 = HIGH  4 = EXTREME
N.D. = NOT DETERMINED  N.A. = NOT AVAILABLE  N/A = NOT APPLICABLE

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